Unit 9 Review

Write the following equations in Slope-Intercept Form.

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| 1. The line with m = , through the point (0,3) | 1. The line through the points (1,-5) and (2,-3) |
| 1. The line parallel to y=-5x+6 through (-2,8) | 1. The line perpendicular to 4x-y=-2 through (0,2) |

Write the following equations in Standard Form.

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| 1. The line through (5,4) and (-5,-2) | 1. The line parallel to -2x+y=-7 through point (6,1) |
| 1. The line with m=, through the point (-5,4) | 1. The line through (6,-5) and (12,-5) |

1. A line passes through (4,-6) with m=. Which point does the line also pass through?



1. (0.3) B) (8,3) C) (8,-9) D) (4,6)

Y varies directly as x.

1. What is the general form of this equation?
2. What is the constant of variation when x=3 and y=6? Write the equation.
3. Use the k from #11 to find x when y=8.

Y varies inversely as x.

1. What is the general form of this equation?
2. What is the constant of variation when x=-2 and y=4? Write the equation.
3. Use the k from #14 to find x when y=16.

Y varies directly as x and inversely as z.

1. What is the general form of this equation?
2. What is the constant of variation when y=4, z=3, and x=6? Write the equation.
3. Use the k from #17 to find x when y=9 and z=2.